

**INSTALLATION OF SITE UNIQUE TERRAIN BASED
HYBRID SCAN DATA FILES FOR RADAR PRODUCT
GENERATION (RPG)**

**DOPPLER METEOROLOGICAL RADAR
WSR-88D**



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NWS: EHB-6, Software Note 13
DoD: Memo-003
FAA: EEM Modification Handbook 6345.1 CHG 4, Chap 5

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1. SUBJECT

Installation of Site Unique Terrain Based Hybrid Scan Data files for Radar Product Generation (RPG).

2. PURPOSE

The purpose of this modification is to provide installation instructions for Terrain Based RPG Hybrid Scan Data files. It is issued as a result of an Operational Support Facility (OSF) Engineering Change Proposal (ECP), F0112. Use of Terrain Based Hybrid Scan Data files can help mitigate discontinuous rings in precipitation products and improve rainfall estimates.

For additional installation information, contact the OSF, WSR-88D hotline at 800-643-3363, and refer to

[http://www.osf.noaa.gov/app/sta/algorithm.htm#3.6noaa/nexrad operational support facility.topic3.6.5](http://www.osf.noaa.gov/app/sta/algorithm.htm#3.6noaa/nexrad%20operational%20support%20facility.topic3.6.5)

3. SITES AFFECTED

This change applies to all WSR-88D RPG sites located in the United States, Korea, and Puerto Rico.

4. ESTIMATED COMPLETION DATE

The target completion date of this modification is 60 days after receipt of modification document and kit.

5. EQUIPMENT AFFECTED

Radar Product Generation (RPG) Group.

6. SPARES AFFECTED

This modification is a software related change and does not affect any hardware spares. The software affected by this modification is RPG software, CPCI-03.

7. MODIFICATION ACCOMPLISHED BY

Site electronic systems analysts and/or electronic technicians will accomplish this modification.

NWS: EHB-6, Software Note 13
DoD: Memo-003
FAA: EEM Modification Handbook 6345.1 CHG 4, Chap 5

8. MATERIAL REQUIRED

Each site will receive installation instructions and one installation kit containing the following:

Software configuration matrix	1 each
SCSI tape containing Hybrid Scan/Occultation data and RPG Background Map files	1 each

NOTE

FAA Redundant sites will receive 2 SCSI tapes; one for each RPG.

9. SOURCE OF MATERIALS

The items in paragraph 8 will be shipped directly to each site by the National Weather Service (NWS), OSF.

10. SPECIAL TOOLS AND TEST EQUIPMENT REQUIRED

No software test and debugging tools are required for this modification.

11. TIME AND PERSONNEL REQUIRED

One technician is required and 2 staff-hours for the RPG installation.

12. DOCUMENTS AFFECTED

Not applicable.

13. VERIFICATION STATEMENT

This modification was successfully installed at the OSF.

14. DISPOSITION OF REMOVED AND REPLACED PARTS/MATERIALS

This modification does not affect any hardware related parts/materials. However, after a successful load of the Hybrid Scan/Occultation Data and Background Map files, retain a backup copy of the previous version as described in the load instructions.

15. PROCEDURES

Perform procedures contained in attachment 1.

FAA: Coordinate the shutdown with the appropriate air traffic control personnel, and perform the procedures that pertain to your sites. Perform the procedures on both channels.

16. FAA DISTRIBUTION

This directive is distributed to selected offices and services within Washington headquarters, the William J. Hughes Technical Center, the Mike Monroney Aeronautical Center, regional Airway Facilities divisions, and Airway Facilities field offices having the following facilities/equipment: NXRAD.

17. CHANGES TO TABLE OF CONTENTS (FAA)

This chapter will be included in the next revision to the table of contents for FAA Order 6345.1, Electronic Equipment Modification Handbook - Next Generation Weather Radar (NEXRAD).

18. RECOMMENDATIONS FOR CHANGES (FAA)

Forward any recommendation for changes to this directive through normal channels to the National Airway Systems Engineering Division, AOS-200, Operational Support.

19. REPORTING INSTRUCTIONS

NWS

Report completed modification on WS Form A-26, Engineering Management Reporting System Maintenance Record, according to instructions in EHB-4, Part 2, using reporting code RPG. Also, record the modification number in block 17(a) as S13 (see attachment 3 for a completed sample of WS Form A-26).

ALL AGENCIES

Complete attachment 2 and fax, mail, or e-mail information to:

1. Mail Address: System Support Branch, Configuration Management
 Operational Support Facility
 3200 Marshall Ave Suite 101
 Norman, Oklahoma 73072-8028

2. Fax Number: (405) 366-6553
 ATTN: Configuration Management Section

3. E-mail Address: chunt@osf.noaa.gov